

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Cancelled)
2. (Previously presented) The circuit of claim 8, wherein the voltage generator includes a resistor having a temperature dependent resistance.
3. (Cancelled)
4. (Previously presented) The circuit of claim 9, wherein the temperature dependent resistance of the resistor increases as the temperature increases, and decreases as the temperature decreases.
- 5-7. (Cancelled)

8. (Currently amended) A circuit for providing a refresh cycle for a memory device, comprising:

a first current generator providing a first current in response to a constant voltage, the first current being substantially temperature-independent;

a voltage generator providing a temperature dependent voltage;

a second current generator providing a second current in response to the temperature dependent voltage; and

a frequency generator providing a frequency in response to the sum of the first and second currents, the frequency generator comprising (i) a capacitor having a terminal to receive the summed first and second currents and (ii) a comparator to compare a voltage at the terminal of the capacitor to a reference voltage and generate an output signal that indicates when the voltage at the terminal of the capacitor exceeds the reference voltage.

9. (Original) The circuit of claim 8, wherein the voltage generator includes a current source, a resistor having a temperature dependent resistance, and an output terminal coupled between the current source and the resistor.

10. (Original) The circuit of claim 9, wherein the second current generator includes a transistor having a gate coupled to the output terminal.

11. (Original) The circuit of claim 8, wherein the second current is turned off at a predetermined temperature.

12-24. (Cancelled)